AMPR

T ANTIGEN

BK ori



pA SV40pA

- RRE JS 113 F

Dogo

PBS SD4

pBAR

Tot RESPONSIVE ELEMENT ... Rev RESPONSIVE ELEMENT

SA/SD PREVENTS PROTEIN EXPRESSION FROM BASAL PROMOTER ACTIVITY

PACKAGING SIGNAL

PRIMER BINDING SITE

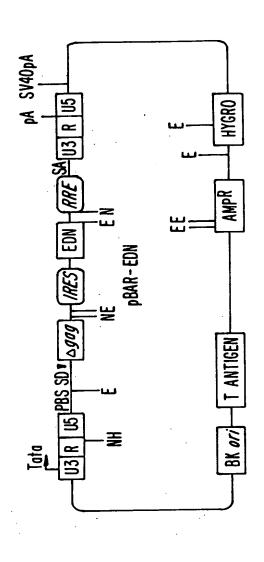
DIFFERENT 5' AND 3' LTR WITH A UNIQUE RESTRICTION SITE AT THE 5' LTR

IRES SEQUENCE FOR TRANSLATION OF TWO PROTEINS FROM A DICISTRONIC MRNA

TWO PROTECTIVE GENES ARE ACTIVE AT DIFFERENT STAGES OF VIRAL REPLICATION

EPISOMAL REPLICATION

SV40pA TO BLOCK ACTIVITY FROM THE 3' LTR



F/G /





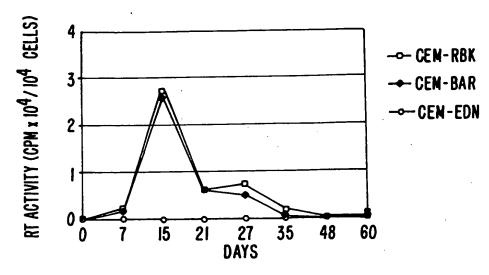


FIG. 2A.

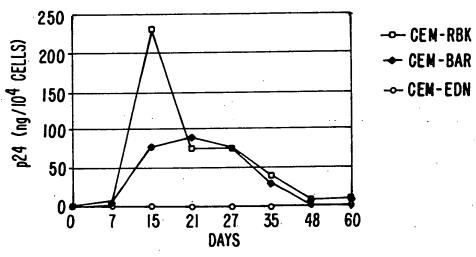


FIG. 2B.

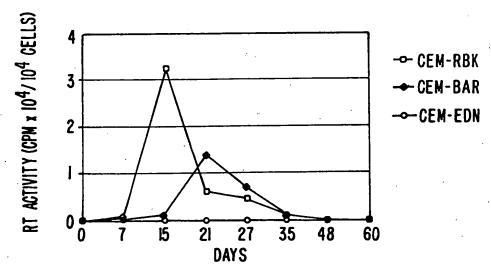
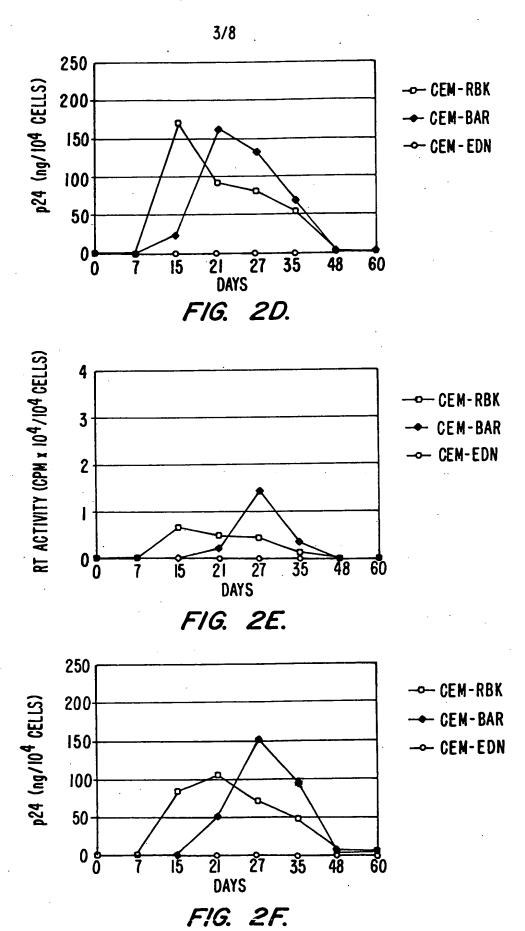


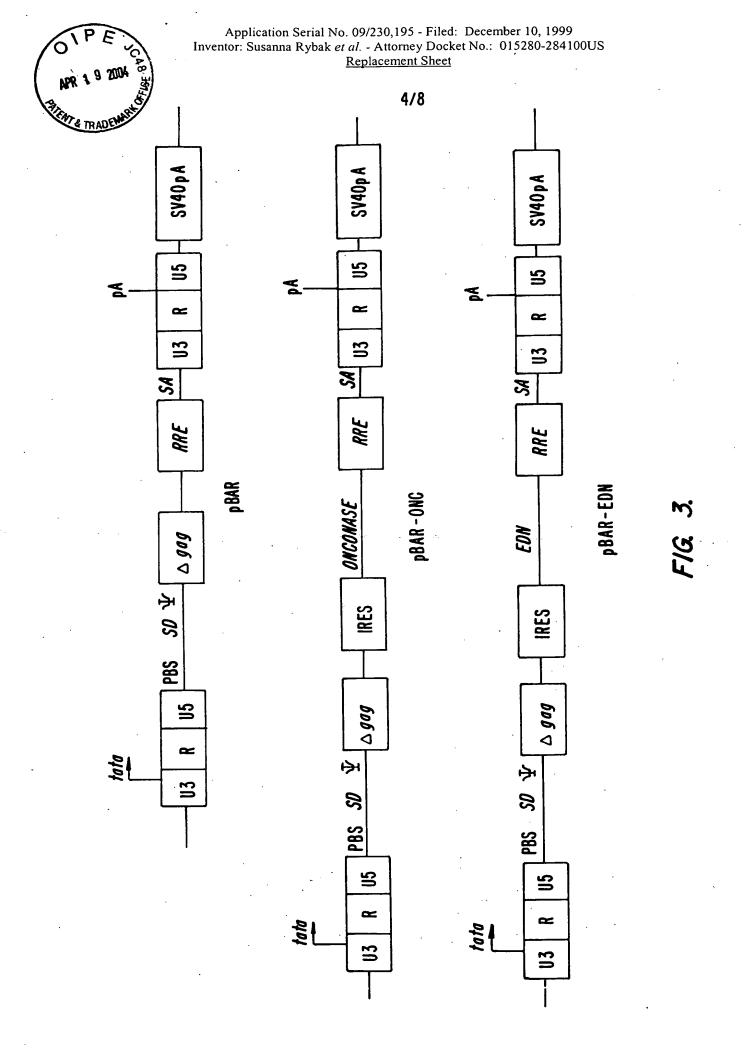
FIG. 2C.

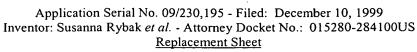


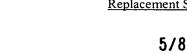
Application Serial No. 09/230,195 - Filed: December 10, 1999
Inventor: Susanna Rybak et al. - Attorney Docket No.: 015280-284100US

Replacement Sheet









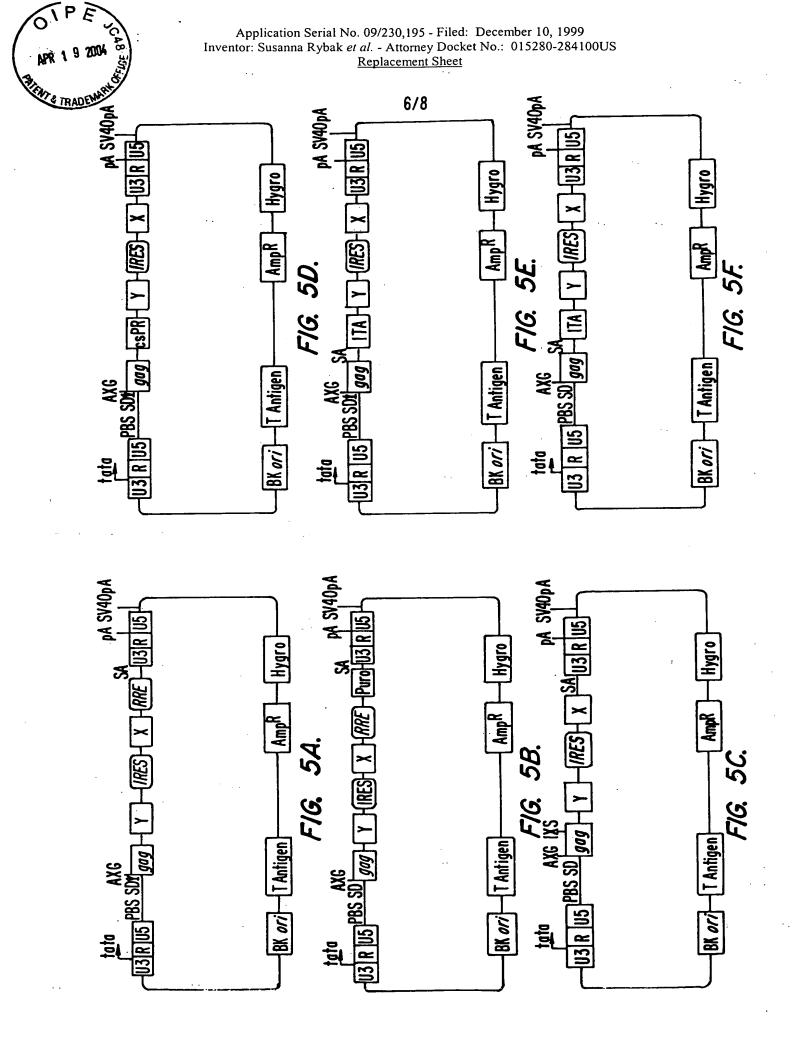


## INTERVENING SEQUENCE

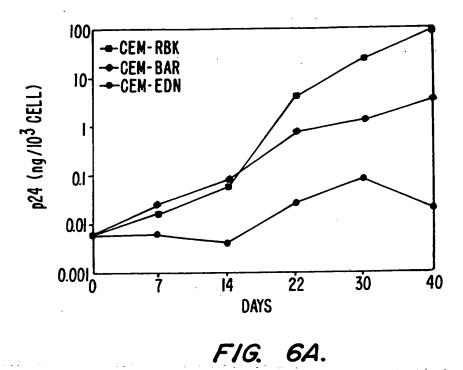
CTAGAAATAATTTTGTTTAACTTTAAGAAGGAGATATACATATG

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			. 1	V )	,	`
	CAG					
ACT	AAC	AAC	922	GCT	GAC	
ATG	AAA	522	GTT	TAC	CGT	
AAC	TGC	AAC	CAG	CGT	CGT	
ATC	CGT	GGT	TCT	TGC	CAG	
CAT	CGT	IGC	GGT	AAC	GAC	
CAG	CAG	$\mathtt{GTT}$	TCT	TCT	CGT GAC	ATC
ACI	TAC	AAC	CAI	ATC	AA(	AT(
GAA	AAC	GTT	CAT	AAC	GAC	CGT
TIC	AAC	GTT	$_{ m IGC}$	CAG	TGC	GAC
TGG	ATC	AAC	AAC	SSS	GCT	CTG
CAG	GTT	GCT	AAA	TCT	GTT	CAT
GCT	CAG	TIC	CGT	၅၁၁	ATC	CTT
$_{\rm IGG}$	ATG	ACT	ACT	ACT	TAC	500
ACT	GCT	ACT	AAA	ACT	$_{ m TTC}$	GIT
TIC					ATG	
					AAC	
900	TGC	TIC	SSS	JGC.	GCT	TAC
၅၁၁	CAG	ACT	IGC	CAT	900	CAG
AAA	CAG	AAC	ACT	ATC	ACT	900







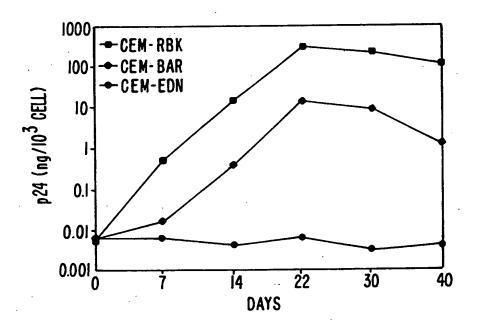
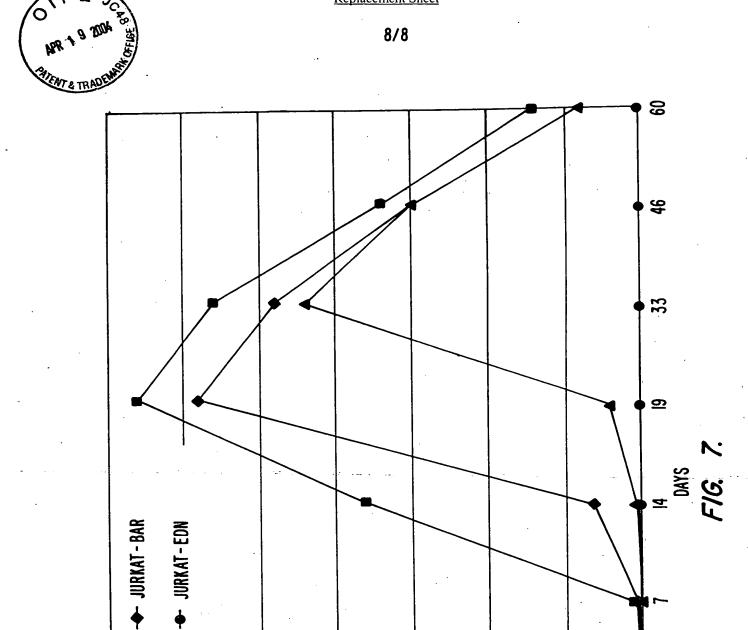


FIG.

*6B*.



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p24 ng/ml/106 CELLS

300 → JURKAT-ONC

250-